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LOGINID:ssspta1653cmk PASSWORD: TERMINAL (ENTER 1, 2, 3, OR ?):2 Welcome to STN International Web Page URLs for STN Seminar Schedule - N. America NEWS "Ask CAS" for self-help around the clock NEWS Apr 08 BEILSTEIN: Reload and Implementation of a New Subject Area Apr 09 NEWS Apr 09 ZDB will be removed from STN NEWS Apr 19 US Patent Applications available in IFICDB, IFIPAT, and NEWS IFIUDB NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS BIOSIS Gene Names now available in TOXCENTER NEWS 7 Apr 22 NEWS 8 Federal Research in Progress (FEDRIP) now available Apr 22 NEWS 9 Jun 03 . New e-mail delivery for search results now available NEWS 10 Jun 10 MEDLINE Reload NEWS 11 Jun 10 PCTFULL has been reloaded NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment NEWS 13 USAN to be reloaded July 28, 2002; Jul 22 saved answer sets no longer valid NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY NETFIRST to be removed from STN NEWS 15 Jul 30 NEWS 16 Aug 08 CANCERLIT reload NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN NEWS 18 Aug 08 NTIS has been reloaded and enhanced NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN IFIPAT, IFICDB, and IFIUDB have been reloaded NEWS 20 Aug 19 NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced NEWS 23 Sep 03 JAPIO has been reloaded and enhanced NEWS 24 Sep 16 Experimental properties added to the REGISTRY file NEWS 25 Sep 16 Indexing added to some pre-1967 records in CA/CAPLUS NEWS 26 Sep 16 CA Section Thesaurus available in CAPLUS and CA NEWS 27 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985 October 14 CURRENT WINDOWS VERSION IS V6.01, NEWS EXPRESS CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP), AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002 NEWS HOURS STN Operating Hours Plus Help Desk Availability NEWS INTER General Internet Information NEWS LOGIN Welcome Banner and News Items NEWS PHONE Direct Dial and Telecommunication Network Access to STN

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FILE 'HOME' ENTERED AT 11:38:34 ON 17 OCT 2002

=> file medline caplus biosis embase scisearch agricola
COST IN U.S. DOLLARS
SINCE FILE
ENTRY
SESSION
FULL ESTIMATED COST
0.21

FILE 'MEDLINE' ENTERED AT 11:38:59 ON 17 OCT 2002

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FILE 'AGRICOLA' ENTERED AT 11:38:59 ON 17 OCT 2002

=> s l1 (p) inhibit? L2 13071 L1 (P) INHIBIT?

=> s 12 (a) fat PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH FIELD CODE - 'AND' OPERATOR ASSUMED 'L8 (A) FAT' PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH FIELD CODE - 'AND' OPERATOR ASSUMED 'L9 (A) PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH FIELD CODE - 'AND' OPERATOR ASSUMED 'L10 (A) PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH FIELD CODE - 'AND' OPERATOR ASSUMED 'L11 (A) PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH FIELD CODE - 'AND' OPERATOR ASSUMED 'L12 (A) PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH FIELD CODE - 'AND' OPERATOR ASSUMED 'L13 (A) FAT' 371 L2 (A) FAT

=> s l2 (p) fat L4 343 L2 (P) FAT

```
=> d uplicate remove 14
 'UPLICATE' IS NOT A VALID FORMAT
 'REMOVE' IS NOT A VALID FORMAT
 In a multifile environment, a format can only be used if it is valid
 in at least one of the files. Refer to file specific help messages
 or the STNGUIDE file for information on formats available in
 individual files.
 REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT): end
 => duplicate remove 14
 DUPLICATE PREFERENCE IS 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA'
 KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
 PROCESSING COMPLETED FOR L4
             132 DUPLICATE REMOVE L4 (211 DUPLICATES REMOVED)
 => s 15 and py<2000
   3 FILES SEARCHED...
    5 FILES SEARCHED...
 L6
            124 L5 AND PY<2000
 => s 16 (p) (milk or egg)
 PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
 FIELD CODE - 'AND' OPERATOR ASSUMED 'L31 (P)
 PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
 FIELD CODE - 'AND' OPERATOR ASSUMED 'L33 (P)
 PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
 FIELD CODE - 'AND' OPERATOR ASSUMED 'L35 (P)
- PROXIMITY- OPERATOR LEVEL NOT CONSISTENT WITH
 FIELD CODE - 'AND' OPERATOR ASSUMED 'L37 (P)
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L39 (P)
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L41 (P) '
              1 L6 (P) (MILK OR EGG)
=> d 17 1 ibib abs
     ANSWER 1 OF 1
                        MEDLINE
ACCESSION NUMBER:
                     91304125
                                  MEDLINE
                     91304125
                                PubMed ID: 2072799
DOCUMENT NUMBER:
TITLE:
                     Diet and nutrition in ulcer disease.
AUTHOR:
                     Marotta R B; Floch M H
CORPORATE SOURCE:
                     Nutrition Support Service, Norwalk Hospital, Connecticut.
                     MEDICAL CLINICS OF NORTH AMERICA, (1991 Jul) 75
SOURCE:
                     (4) 967-79. Ref: 58
                     Journal code: 2985236R. ISSN: 0025-7125.
PUB. COUNTRY:
                     United States
DOCUMENT TYPE:
                     Journal; Article; (JOURNAL ARTICLE)
                     General Review; (REVIEW)
                     (REVIEW, ACADEMIC)
LANGUAGE:
                     English
FILE SEGMENT:
                     Abridged Index Medicus Journals; Priority Journals
ENTRY MONTH:
                     199108
ENTRY DATE:
                     Entered STN: 19910908
                     Last Updated on STN: 19910908.
                     Entered Medline: 19910822
AB
     In this era of H2-inhibitors, the available evidence does not
```

support the need to place peptic ulcer disease patients on restrictive

diets. The major goal of diet is to avoid extreme elevations of gastric acid secretion and the direct

irritation of gastric mucosa. In view of this, only slight modifications in the patient's usual diet are recommended. Table 1 depicts a sample

menu

for chronic peptic ulcer disease. Frequent milk ingestion as previously prescribed is not encouraged. This is owing to the transient buffering effect and significant gastric acid secretion effect of milk. The fat content of milk has no influence on these effects. Spices, in particular black pepper, red pepper, and chili powder, may produce dyspepsia. One study shows red chili powder to have no detrimental effect on duodenal ulcer healing. It has also been proposed that daily pepper ingestion may

have a beneficial adaptive cytoprotective response. While still controversial and under evaluation, peptic ulcer patients should avoid

any

spice that causes discomfort, especially during exacerbation of peptic disease. Currently, studies indicate that it is prudent to avoid alcohol. This is especially true for the concentrated forms, such as 40% (80 proof)

alcohol. Coffee should be avoided on the basis of its strong acid secretagogue property. Coffee can induce dyspepsia. Whether noncoffee caffeine-containing beverages (tea, soft drinks) induce peptic ulcer is unknown, but they are acid secretion stimulators. Decaffeinated coffee

has

an acid stimulating effect as well. It is reasonable to have peptic ulcer patients restrict decaffeinated coffee and all caffeine-containing beverages. There appears to be no evidence to restrict dietary fiber.

Some

fiber-containing foods may possess factors that are protective against ulcer disease. According to the Mayo Clinic Diet Manual, previously recommended small frequent feedings have not been shown to be more effective than three meals per day in the treatment of chronic peptic ulcer disease. This reference cites authorities advising against extra feedings because of increased acid secretion and unnecessary complication of eating patterns. However, some patients claim to be relieved of symptoms with more frequent feedings, especially during acute phases. Citric acid juices may induce reflux and cause discomfort in selective patients. Stomach distention with large quantities of food should be discouraged. Although there is now little role for dietary therapy, one should note that bland and ulcer diets probably are not detrimental to most persons if they are used for a short time and may have some psychological benefit. (ABSTRACT TRUNCATED AT 400 WORDS)

=> d his

(FILE 'HOME' ENTERED AT 11:38:34 ON 17 OCT 2002)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT 11:38:59 ON 17 OCT 2002

```
L1 26873 S GASTRIC ACID SECRETION
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L2 13071 S L1 (P) INHIBIT?

L3 371 S L2 (A) FAT

L4 . 343 S L2 (P) FAT

L5 132 DUPLICATE REMOVE L4 (211 DUPLICATES REMOVED)

L6 124 S L5 AND PY<2000

L7 1 S L6 (P) (MILK OR EGG)

```
=> s l1 (p) inhibitor
          3514 L1 (P) INHIBITOR
=> s 18 (p) fat
           64 L8 (P) FAT
=> duplicate remove 19
DUPLICATE PREFERENCE IS 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L9
             24 DUPLICATE REMOVE L9 (40 DUPLICATES REMOVED)
L10
=> d l10 1-24 ibib abs
L10 ANSWER 1 OF 24 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER:
                         2002:618851 CAPLUS
DOCUMENT NUMBER:
                         137:179683
                        Ranitidine and omeprazole as adjuvant therapy to
TITLE:
                         pancrelipase to improve fat absorption in patients
                         with cystic fibrosis
AUTHOR(S):
                         Francisco, Mary Pat; Wagner, Mary H.; Sherman, James
                         M.; Theriaque, Douglas; Bowser, Ellen; Novak, Donald
                        Department of Pediatrics, University of Florida,
CORPORATE SOURCE:
                        Gainesville, FL, 32610, USA
SOURCE: ___________Journal_of_Pediatric_Gastroenterology_and_Nutrition_________
                         (2002), 35(1), 79-83
                        CODEN: JPGND6; ISSN: 0277-2116
PUBLISHER:
                        Lippincott Williams & Wilkins
DOCUMENT TYPE:
                        Journal
LANGUAGE:
                        English
     Inadequate treatment of pancreatic insufficiency in patients with cystic
     fibrosis (CF) causes malabsorption of nutrients with significant
sequelae.
     The objective of this study was to measure the effect of acid suppressant
     therapy on fat absorption in patients with CF who received a
pH-sensitive,
     enteric-coated microtablet enzyme product. A double-blind,
     placebo-controlled crossover study of 12 children and 10 adults with
     pancreatic insufficient CF was performed. All subjects were receiving
     pancrelipase therapy (Pancrease MT10 and MT16; Ortho-McNeil, Springhouse,
     PA, U.S.A.) and for the study also received either placebo or ranitidine
     (Zantac; Glaxo-Wellcome, Research Triangle Park, NC U.S.A.) 5 mg/kg or 10
     mg/kg daily. The adult subjects also received omeprazole therapy
     (Prilosec; AstraZeneca/Merck, Wilmington, DE, U.S.A.), 20 mg daily, as
     adjuvant therapy to pancreatic enzymes. Serial 3-day fat-balance studies
     were performed in the Clin. Research Center. The data were analyzed
usina
     individual paired t tests that compared each treatment with placebo and
     two repeated-measures, general linear model F tests. The linear model
for
     all subjects showed no overall adjuvant drug effect on fat absorption, P
     0.32. A second linear model F test anal. of adult subjects, comparing
all
     four drug treatments (placebo, ranitidine 5 and 10 mg/kg daily and
```

omeprazole), also showed no difference in fat absorption, P = 0.15.

Paired t test subgroup anal. of the adults showed an improvement of 4.97% (P = 0.003) in mean fat absorption comparing low-dose ranitidine to placebo. All other t test analyses showed no significant change in fat absorption between placebo and acid suppressant treatment. There was marked intersubject and intrasubject variability in fat absorption. No overall significant improvement in fat absorption could be demonstrated with adjuvant therapy. Fat absorption measured by 3-day fat-balance studies varied greatly even when comparing the same subject for placebo and baseline treatments, despite identical dietary fat and enzyme

intakes.

The large variability limited our ability to test for a difference in fat absorption and has significant implication for the use of this test, considered the gold std., for detg. enzyme dosage adequacy.

REFERENCE COUNT:

13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR

THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L10 ANSWER 2 OF 24 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2001:873248 CAPLUS

DOCUMENT NUMBER:

136:20253

TITLE:

Preparation of peptides as drugs such as

antihypertensives, analgesics, gastric acid-secretion inhibitors, and growth hormone production inhibitors

INVENTOR(S):

Sakamoto, Kenji

PATENT ASSIGNEE(S):

Nagoshi, Hideo, Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE --------------JP 2001335596 A2 20011204 JP 2000-152459 20000524 (Poly) peptides having activity to reduce blood pressure, analgesic activity, activity to inhibit prodn. of growth hormone, activity to inhibit accumulation of fat in fat cells, activity to increase calcium level in blood, activity to inhibit secretion of gastric acid, activity to increase prodn. of prostaglandin E2 by prostaglandin E2-producing cells, activity to stimulate proliferation of osteoblasts, and activity to increase prodn. of growth hormone by growth hormone-producing cells are prepd. They provides antihypertensives, analgesics, growth hormone prodn. inhibitors, fat accumulation inhibitors, increasers for blood calcium concn., gastric acid-secretion inhibitors, promoters for prostaglandin E prodn., promoters for proliferation of osteoblastic cell, and promoters for growth hormone prodn., which have mechanisms of actions different from prior art drugs. These (poly) peptides are also useful for the treatment of osteoporosis and dwarfism. Thus,

H-Gln-Arg-Gly-Thr-Gln-Lys-Ser-Ile-Ile-Ile-His-Thr-Ser-Glu-

MEDLINE

Asp-Gly-Lys-Val-OH, which was prepd. by a peptide synthesizer, exhibited analgesic activity in a hot plate assay on rats.

2001336175 ACCESSION NUMBER:

DOCUMENT NUMBER: 21296949 PubMed ID: 11403540

Gastric acid suppression and treatment of severe exocrine TITLE:

MEDLINE

pancreatic insufficiency.

AUTHOR: DiMagno E P

Department of Internal Medicine, Mayo Clinic, 200 First CORPORATE SOURCE:

Street S.W., Rochester, MN 55905, USA.

Best Pract Res Clin Gastroenterol, (2001 Jun) 15 (3) SOURCE:

477-86. Ref: 20

Journal code: 101120605. ISSN: 1521-6918.

PUB. COUNTRY:

England: United Kingdom

Journal; Article; (JOURNAL ARTICLE) DOCUMENT TYPE:

General Review; (REVIEW)

(REVIEW, TUTORIAL)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

200108

ENTRY DATE: Entered STN: 20010820

> Last Updated on STN: 20010917 Entered Medline: 20010816

Adding either H(2)-receptor antagonists (cimetidine or ranitidine) or AB proton pump inhibitors to an adequate amount of lipolytic activity improves fat malabsorption in most cases and abolishes steatorrhoea in up to 40% of children and adults with cystic fibrosis and in adults with chronic pancreatitis. Acid suppression improves fat absorption because the resultant increase in pH within the upper gastrointestinal tract improves the survival of lipolytic activity, reduces duodenal volume flow and prevents the precipitation of bile acids.

These effects increase the concentration of intraduodenal lipolytic activity and promote the aggregation of bile acids and the micellar solubilization of lipid. The amount of lipase that should be recommended is controversial, but we interpret our studies as indicating that at least

90 000 United States Pharmacopeia (USP) units should be ingested with meals. This amount of lipolytic activity taken with an agent that suppresses gastric acid secretion improves

fat absorption in most patients and may even abolish steatorrhoea.

L10 ANSWER 4 OF 24

MEDLINE

DUPLICATE 2

ACCESSION NUMBER:

2000270041 MEDLINE

DOCUMENT NUMBER:

PubMed ID: 10807887 20270041

TITLE:

Role of lipase in the regulation of postprandial

gastric acid secretion and

emptying of fat in humans: a study with orlistat,

a highly specific lipase inhibitor.

AUTHOR:

Borovicka J; Schwizer W; Guttmann G; Hartmann D; Kosinski

M; Wastiel C; Bischof-Delaloye A; Fried M

CORPORATE SOURCE:

Gastroenterology and Nuclear Medicine Departments, University Hospitals, Lausanne and Zurich, Switzerland.

SOURCE:

GUT, (2000 Jun) 46 (6) 774-81.

Journal code: 2985108R. ISSN: 0017-5749.

PUB. COUNTRY:

ENGLAND: United Kingdom

DOCUMENT TYPE:

(CLINICAL TRIAL)

Journal; Article; (JOURNAL ARTICLE)

(RANDOMIZED CONTROLLED TRIAL)

LANGUAGE:

English

FILE SEGMENT:

Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH:

200008

ENTRY DATE:

Entered STN: 20000811

Last Updated on STN: 20000811 Entered Medline: 20000801

AB BACKGROUND AND AIMS: To investigate the importance of lipase on gastric functions, we studied the effects of orlistat, a potent and specific inhibitor of lipase, on postprandial gastric acidity and gastric emptying of fat. METHODS: Fourteen healthy volunteers participated in a double blind, placebo controlled, randomised study. In

two way cross over study with two test periods of five days, separated by at least 14 days, orlistat 120 mg three times daily or placebo was given with standardised daily meals. In previous experiments we found that this dose almost completely inhibited postprandial duodenal lipase activity. Subjects underwent 28 hour intragastric pH-metry on day 4, and a gastric emptying study with a mixed meal (800 kcal) labelled with (999m)Tc sulphur

colloid (solids) and (111In)thiocyanate (fat) on day 5. Gastric pH data were analysed for three postprandial hours and the interdigestive periods. RESULTS: Orlistat inhibited almost completely (by 75%) lipase activity and accelerated gastric emptying of both the solid (by 52%) and fat (by 44%) phases of the mixed meal (p<0.03). Orlistat increased postprandial gastric acidity (from a median pH of 3.3 to 2.7; p<0.01). Postprandial cholecystokinin release was lower with orlistat (p<0.03). CONCLUSION: Lipase has an important role in the regulation of

postprandial

__gastric_acid_secretion_and_fat__ ___ emptying in humans. These effects might be explained by lipolysis induced release of cholecystokinin.

L10 ANSWER 5 OF 24 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: DOCUMENT NUMBER:

2000:485557 BIOSIS

PREV200000485557

TITLE:

The impact of omeprazole on children with cystic fibrosis

(CF) who require high-dose pancreatic enzymes: A pilot

study.

AUTHOR (S):

Chung, Y. (1); Gunasekaran, T. S. (1); Angst, D. B. (1);

Blue, B. (1); VandenBranden, S. (1)

CORPORATE SOURCE:

(1) Department of Pediatrics, Divisions of Pediatric Pulmonology and Gastroenterology, Lutheran General

Children's Hospital, Park Ridge, IL USA

SOURCE:

JPGN, (2000) Vol. 31, No. Supplement 2, pp. S73. print.

Meeting Info.: World Congress of Pediatric

Gastroenterology, Hepatology, and Nutrition Boston,

Massachusetts, USA August 05-09, 2000

DOCUMENT TYPE:

Conference

SUMMARY LANGUAGE:

English English

L10 ANSWER 6 OF 24

MEDLINE

DUPLICATE 3

ACCESSION NUMBER:

1998208456

MEDLINE

DOCUMENT NUMBER: TITLE:

LANGUAGE:

98208456 PubMed ID: 9548675

Pancreatic dysfunction and treatment options.

Nakamura T; Takeuchi T; Tando Y AUTHOR:

CORPORATE SOURCE:

Third Department of Internal Medicine, Hirosaki University

School of Medicine, Aomori, Japan.

SOURCE:

PANCREAS, (1998 Apr) 16 (3) 329-36. Ref: 95

Journal code: 8608542. ISSN: 0885-3177.

PUB. COUNTRY:

United States

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, TUTORIAL)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199805

ENTRY DATE:

Entered STN: 19980609

Last Updated on STN: 19980609

Entered Medline: 19980527

Pancreatic steatorrhea and pancreatic diabetes are the dominant symptoms AB of patients in the decompensated stage of chronic pancreatitis (CP). In this stage, the nutritional state is greatly disturbed and hypoglycemia and labile infection are involved. Pancreatic enzyme replacement therapy is the principal treatment method for pancreatic steatorrhea. Before initiating this therapy, dietary fat intake must be determined and pancreatic lipase and bicarbonate secretion function must be evaluated. Upper small intestinal pH is regulated by gastric acid secretion, and abnormal gastric emptying changes lipolysis. In addition, precipitation of bile acids in the upper small intestine and ileal brakes due to undigested fats and carbohydrates must be considered. Porcine pancreatin, bacterial lipase, and acid-resistant fungal lipase are used as enzymes for replacement therapy. Conventional, entero-coating, and enteric-coated microsphere preparations of porcine pancreatin are available for treatment and are formulated to protect against gastric acids, to dissolve enzymes at optimum_pH, and to_be emptied simultaneously with food from the stomach. Gastric acid secretion suppressants, such as H2 blockers or a proton pump inhibitor, can also be used

H2 blockers or a proton pump **inhibitor**, can also be used concomitantly with pancreatin preparations. In consideration of both strengths and weaknesses of these preparations, types and dosages of enzyme replacement therapy should be carefully prescribed, and fecal **fats** should be examined repeatedly by a simple and rapid method during treatment. Attention should also be paid to changes in body weight and nutritional indices (e.g., nutritional parameters, **fat** -soluble vitamins). The relationship between carbohydrate maldigestion/malabsorption in CP patients and treatment of pancreatic diabetes are topics for future research.

L10 ANSWER 7 OF 24 M

MEDLINE

DUPLICATE 4

ACCESSION NUMBER:

96407470 MEDLINE

DOCUMENT NUMBER:

96407470 PubMed ID: 8811523

TITLE:

Twenty-four hour ambulatory gastric and duodenal pH profiles in cystic fibrosis: effect of duodenal hyperacidity on pancreatic enzyme function and fat

absorption.

AUTHOR:

Barraclough M; Taylor C J

CORPORATE SOURCE:

Department of Paediatrics, University of Sheffield,

England.

SOURCE:

JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION, (1996

Jul) 23 (1) 45-50.

Journal code: 8211545. ISSN: 0277-2116.

PUB. COUNTRY:

United States

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199612

ENTRY DATE:

Entered STN: 19970128

Last Updated on STN: 19970128 Entered Medline: 19961216

AB Overt steatorrhoea remains a problem for some patients with cystic fibrosis (CF) despite supraphysiological dosages of pancreatic enzymes.

As

pancreatin release and enzyme function is influenced by duodenal pH, we have used 24-h ambulatory pH measurements to assess the extent and duration of postprandial hyperacidity. Readings were obtained from the stomach and proximal duodenum in 16 CF patients (aged 6 months to 12 years) using a dual-channel antimony electrode. The fasting gastric and duodenal pH values were normal in all patients (mean pH values of 1.3,

and

6.8, respectively). There was, however, a marked drop in duodenal pH in the first postprandial hour, which became more pronounced with successive meals. The total time that duodenal pH was < 5 varied from 15 to 90% of the recording (mean 57%). Overnight the duodenal pH returned to normal levels. A subgroup of five patients were studied before and after treatment with omeprazole, a potent inhibitor of gastric acid secretion. There were significant improvements in both weight gain and fat absorption. This study supports the hypothesis that the postprandial duodenal pH is excessively acid in patients with CF and may be an important element in the continuing fat malabsorption experienced by some patients. This malabsorption may limit the efficacy of the newer high-lipase pancreatic enzyme supplements and lead to delayed enzyme release, a possible factor in the recent reports of proximal colonic strictures.

L10 ANSWER 8 OF 24 MEDLINE DUPLICATE 5

ACCESSION NUMBER:

95047170 MEDLINE

DOCUMENT NUMBER:

95047170 PubMed ID: 7958703

TITLE:

Intracisternal injection of apolipoprotein A-IV inhibits

gastric secretion in pylorus-ligated conscious rats.

AUTHOR:

Okumura T; Fukagawa K; Tso P; Taylor I L; Pappas T N Department of Surgery, Duke University Medical Center,

Durham, North Carolina.

CONTRACT NUMBER:

CORPORATE SOURCE:

DK 32288 (NIDDK)

DK 38216 (NIDDK) DK 44072 (NIDDK)

SOURCE:

GASTROENTEROLOGY, (1994 Dec) 107 (6) 1861-4.

Journal code: 0374630. ISSN: 0016-5085.

PUB. COUNTRY:

United States

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 199412

ENTRY DATE:

Entered STN: 19950110

Last Updated on STN: 19950110 Entered Medline: 19941227

AB BACKGROUND/AIMS: Fat feeding increases not only serum but also cerebrospinal fluid concentration of apolipoprotein (apo) A-IV, a protein produced mainly by the small intestine in the rat. We hypothesized that apo A-IV may have a central effect on gastric secretion. METHODS: Gastric juice was collected by the pylorus ligation method. Rats underwent

pylorus

ligation and received intracisternal injection of apo A-IV under brief isoflurane anesthesia. Two hours after the injection, gastric juice was collected and gastric acid output determined. RESULTS: Intracisternal

injection of 0.5 microgram apo A-IV had no effect on gastric secretion.

However, gastric acid secretion was

significantly inhibited by intracisternal injection of 1 microgram apo A-IV. Furthermore, intracisternal administration of higher doses of apo A-IV (2.0 and 4.0 microgram) resulted in greater inhibition of gastric acid secretion in a dose-dependent

manner. On the contrary, 4 micrograms of apo A-I intracisternally injected

failed to inhibit gastric acid secretion.

Intraperitoneal administration of 15 micrograms of apo A-IV did not alter gastric secretion. CONCLUSIONS: These results suggest that apo A-IV may act in the brain to inhibit gastric acid

secretion. Apo A-IV might be a central enterogastrone, which is a gastric **inhibitor** produced by the small intestine in response to **fat** feeding.

L10 ANSWER 9 OF 24 MEDLINE DUPLICATE 6

ACCESSION NUMBER: 94241510 MEDLINE

DOCUMENT NUMBER: 94241510 PubMed ID: 8185155

TITLE: Integration of postprandial function in the proximal

gastrointestinal tract. Role of CCK and sensory pathways.

AUTHOR: Raybould H E; Lloyd K C

CORPORATE SOURCE: CURE/UCLA Digestive Diseases Research Center, VA West Los

Angeles.

CONTRACT NUMBER: DDK 41004 (NIDDK)

DK 41301 (NIDDK)

SOURCE: ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, (1994 Mar 23)

713 143-56. Ref: 37

Journal code: 7506858. ISSN: 0077-8923.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, TUTORIAL)

LANGUAGE: English

FILE SEGMENT: Priority Journals; Space Life Sciences

ENTRY MONTH: 199406

ENTRY DATE: Entered STN: 19940621

Last Updated on STN: 19990129 Entered Medline: 19940615

AB Cholecystokinin (CCK) stimulates vagal afferent fiber discharge, both gastric and intestinal, which seems to result in reflex decrease in gastric motility, gastric acid secretion,

and stimulation of pancreatic protein secretion. Endogenous release of \mathtt{CCK}

by **fat** or soybean trypsin **inhibitor** also alters function by way of a capsaicin-sensitive pathway. We suggest that CCK is released locally from the intestine and acts locally or systemically to stimulate vagal afferent fiber discharge to alter proximal gastrointestinal function (Fig. 14). In this way, in addition to its effect on food intake, CCK and the neural pathway integrate function in the proximal gastrointestinal tract, regulating the entry of food into

the duodenum to ensure effective digestion and absorption.

L10 ANSWER 10 OF 24 MEDLINE

ACCESSION NUMBER: 91304125 MEDLINE

DOCUMENT NUMBER: 91304125 PubMed ID: 2072799

TITLE: Diet and nutrition in ulcer disease.

AUTHOR:

Marotta R B; Floch M H

CORPORATE SOURCE:

Nutrition Support Service, Norwalk Hospital, Connecticut.

MEDICAL CLINICS OF NORTH AMERICA, (1991 Jul) 75 (4)

SOURCE:

967-79.

Ref: 58

Journal code: 2985236R. ISSN: 0025-7125.

PUB. COUNTRY:

United States

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, ACADEMIC)

LANGUAGE:

English

FILE SEGMENT:

Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH:

199108

ENTRY DATE:

Entered STN: 19910908

Last Updated on STN: 19910908 Entered Medline: 19910822

AB In t

In this era of H2-inhibitors, the available evidence does not support the need to place peptic ulcer disease patients on restrictive diets. The major goal of diet is to avoid extreme elevations of

diets. The major goal of diet is to avoid extreme elevations of gastric acid secretion and the direct

irritation of gastric mucosa. In view of this, only slight modifications in the patient's usual diet are recommended. Table 1 depicts a sample

menu

for chronic peptic ulcer disease. Frequent milk ingestion as previously prescribed is not encouraged. This is owing to the transient buffering effect and significant gastric acid secretion

effect of milk. The **fat** content of milk has no influence on these effects. Spices, in particular black pepper, red pepper, and chili powder, may produce dyspepsia. One study shows red chili powder to have

no

detrimental effect on duodenal ulcer healing. It has also been proposed that daily pepper ingestion may have a beneficial adaptive cytoprotective response. While still controversial and under evaluation, peptic ulcer patients should avoid any spice that causes discomfort, especially during exacerbation of peptic disease. Currently, studies indicate that it is prudent to avoid alcohol. This is especially true for the concentrated forms, such as 40% (80 proof) alcohol. Coffee should be avoided on the basis of its strong acid secretagogue property. Coffee can induce dyspepsia. Whether noncoffee caffeine-containing beverages (tea, soft drinks) induce peptic ulcer is unknown, but they are acid secretion stimulators. Decaffeinated coffee has an acid stimulating effect as well. It is reasonable to have peptic ulcer patients restrict decaffeinated coffee and all caffeine-containing beverages. There appears to be no evidence to restrict dietary fiber. Some fiber-containing foods may possess factors that are protective against ulcer disease. According to the Mayo Clinic Diet Manual, previously recommended small frequent feedings have not been shown to be more effective than three meals per

day

in the treatment of chronic peptic ulcer disease. This reference cites authorities advising against extra feedings because of increased acid secretion and unnecessary complication of eating patterns. However, some patients claim to be relieved of symptoms with more frequent feedings, especially during acute phases. Citric acid juices may induce reflux and cause discomfort in selective patients. Stomach distention with large quantities of food should be discouraged. Although there is now little role for dietary therapy, one should note that bland and ulcer diets probably are not detrimental to most persons if they are used for a short time and may have some psychological benefit. (ABSTRACT TRUNCATED AT 400

WORDS)

L10 ANSWER 11 OF 24 MEDLINE DUPLICATE 7

ACCESSION NUMBER: 91300965 MEDLINE

DOCUMENT NUMBER: 91300965 PubMed ID: 2070700

TITLE: Intracolonic fat inhibits gastric acid secretion

independent of gastrin release in the dog.

AUTHOR: Hashimoto T; Lluis F; Gomez G; Hill F L; Greeley G H Jr;

Thompson J C

CORPORATE SOURCE: Department of Surgery, University of Texas Medical Branch,

Galveston 77550.

CONTRACT NUMBER: 5R37 DK 15241 (NIDDK)

P01 DK 35608 (NIDDK)

SOURCE: DIGESTIVE DISEASES AND SCIENCES, (1991 Jul) 36 (7) 888-92.

Journal code: 7902782. ISSN: 0163-2116.

NUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

#ILE SEGMENT: Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 199108

ENTRY DATE: Entered STN: 19910908

Last Updated on STN: 19980206 Entered Medline: 19910821

AB The purpose of this study was to examine the effect of perfusion of the colon with a fatty acid (oleic acid) on peptone-stimulated **gastric**

acid secretion and release of gastrin in conscious dogs.

Gastric acid secretion was monitored by

continuous intragastric titration. Perfusion of the colon with sodium

oleate (24 mmol/hr) inhibited **gastric acid secretion** (14.2 +/- 2.6 meq/hr) stimulated by a peptone meal (1%)

significantly (P less than 0.05) when compared to perfusion of the colon with saline alone (20.1 +/- 1.6 meq/hr). The serum elevation in gastrin

in

response to intragastric instillation of the peptone meal was not affected

by the colonic perfusion of oleic acid. Plasma concentrations of peptide YY (PYY) increased significantly in response to perfusion of the colon with saline or sodium oleate, and the integrated release of PYY in response to sodium oleate [6.9 +/- 2.8 ng (60-120) min/ml] was significantly greater than the response to saline [3.1 +/- 0.7 ng (60-120)

min/ml]. The results of this study indicate that inhibition of gastric acid secretion by perfusion of the colon with fat is not due to an inhibition of gastrin release. In addition, because PYY is an inhibitor of gastric acid secretion, it is possible that PYY participates as an inhibitor of gastric acid secretion by the colon.



L10 ANSWER 12 OF 24 MEDLINE DUPLICATE 8

ACCESSION NUMBER: 90338917 MEDLINE

DOCUMENT NUMBER: 90338917 PubMed ID: 2380653

TITLE: Glucagon-like peptide-1 (7-36)-NH2: a physiological

inhibitor of gastric acid secretion in man.

AUTHOR: O'Halloran D J; Nikou G C; Kreymann B; Ghatei M A; Bloom S

R

CORPORATE SOURCE: Department of Medicine, Royal Postgraduate Medical School,

Hammersmith Hospital, London.

SOURCE: JOURNAL OF ENDOCRINOLOGY, (1990 Jul) 126 (1) 169-73.

Journal code: 0375363. ISSN: 0022-0795.

ENGLAND: United Kingdom PUB. COUNTRY:

Journal; Article; (JOURNAL ARTICLE) DOCUMENT TYPE:

LANGUAGE: English

Priority Journals FILE SEGMENT:

ENTRY MONTH: 199009

Entered STN: 19901012 ENTRY DATE:

> Last Updated on STN: 19901012 Entered Medline: 19900907

Glucagon-like peptide (GLP)-1 (7-36)-NH2 is a peptide found in the mucosal

endocrine cells of the intestine, and plasma levels of GLP-1 (7-36)-NH2 immunoreactivity show a rise after the ingestion of a fat or mixed-component meal. We investigated the effects of physiological infusion of GLP-1 (7-36)-NH2 on a submaximal gastric acid secretion in healthy volunteers at a rate known to mimic the observed postprandial rise in plasma concentrations. Corrected gastric acid output decreased to less than 50% and volume output to 33%

of

stimulated values. After the infusion, the secretion of gastric acid recovered immediately to preinhibition values. These results suggest a novel role for GLP-1 (7-36)-NH2 as a physiological inhibitor of gastric acid secretion in man.

MEDLINE L10 ANSWER 13 OF 24

DUPLICATE 9

DOCUMENT NUMBER: 90255820 PubMed ID: 2340960

TITLE:

Cholecystokinin in the inhibition of gastric secretion and

gastric emptying in humans.

AUTHOR: Konturek S J; Kwiecien N; Obtulowicz W; Kopp B; Oleksy J;

Rovati L

CORPORATE SOURCE: Institute of Physiology, Academy of Medicine, Krakow,

Poland.

SOURCE: DIGESTION, (1990) 45 (1) 1-8.

Journal code: 0150472. ISSN: 0012-2823.

PUB. COUNTRY: Switzerland

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199006

ENTRY DATE: Entered STN: 19900720

> Last Updated on STN: 19900720 Entered Medline: 19900627

AΒ Cholecystokinin (CCK) is known to inhibit gastric acid secretion and gastric emptying but its physiological role in the inhibition of gastric functions is not settled. In this study performed

16 young male subjects, gastric acid secretion and emptying rate were determined after intragastric administration of 8% peptone meal alone or in combination with intravenous infusion of graded doses of CCK-8 (5-80 pmol/kg.h) or with addition of vegetable oil to meal without or with pretreatment with loxiglumide, a specific CCK antagonist. CCK-8 infusion at lower dose (5 pmol/kg.h) was ineffective but at higher doses (20-80 pmol/kg.h) it resulted in a significant reduction in acid

output by 39 and 43% and a decrease in gastric emptying from 54% to 40

22%, respectively. Pretreatment with loxiglumide abolished almost

and

on

completely the inhibition of both gastric acid and gastric emptying by CCK-8. Fat added to peptone meal reduced gastric acid secretion by 42-65% and decreased gastric emptying to 24-32%. The pretreatment with loxiglumide tended to reduce fat -induced inhibition of gastric acid secretion and gastric emptying but the difference in the inhibition of gastric functions between the tests without and with loxiglumide was not significant. This study provides evidence that exogenous CCK administered at pharmacological doses is a potent inhibitor of gastric acid secretion and gastric emptying and probably acts via specific CCK receptors. In contrast, fat induces inhibition of gastric acid secretion and gastric emptying that cannot be fully attributed to hormonally acting CCK.

L10 ANSWER 14 OF 24 DUPLICATE 10 MEDLINE

ACCESSION NUMBER:

89240637

MEDLINE

DOCUMENT NUMBER:

89240637 PubMed ID: 2654927

TITLE:

Pancreatic juice enhances fat-stimulated release of

enteric

hormones in dogs.

AUTHOR:

Lluis F; Gomez G; Hashimoto T; Fujimura M; Greeley G H Jr;

Thompson J C

CORPORATE SOURCE:

Department of Surgery, Hospital Santa Creu i Sant Pau,

Universidad Autonoma de Barcelona, Spain.

CONTRACT NUMBER:

5R37 DK 15241 (NIDDK)

SOURCE:

PANCREAS, (1989) 4 (1) 23-30.

Journal code: 8608542. ISSN: 0885-3177.

PUB. COUNTRY:

United States

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

198906

ENTRY DATE:

Entered STN: 19900306

Last Updated on STN: 19980206

Entered Medline: 19890620

The presence of pancreatic juice in the intestinal lumen results in the hydrolysis of dietary **fat**. The hydrolytic products of dietary AB fat are potent stimulants of pancreatic exocrine secretion and potent inhibitors of gastric acid secretion. In this study, residual pancreatic enzyme activity in the intestinal lumen may account for the observed increase of triglyceride-stimulated pancreatic exocrine secretion and the release of peptides during diversion of pancreatic juice. The presence of pancreatic juice enhanced the pancreatic protein output that was stimulated by the intraduodenal administration of a triglyceride (corn oil, 2 g/kg/h) by 240% (p less than .05). The presence of pancreatic juice during the intraduodenal administration of a triglyceride nearly abolished the

output

of gastric acid as well as the release of gastrin (p less than .05) that had been stimulated by the intragastric placement of a 10% peptone meal. Pancreatic juice in the duodenum significantly enhanced the triglyceride-stimulated release of cholecystokinin-33/39, secretin, neurotensin, peptide YY, pancreatic polypeptide, and insulin (p less than .05) when compared with the release of these enteropancreatic hormones during the diversion of pancreatic juice. This study shows that the presence of pancreatic juice in the duodenal lumen enhances the

fat-stimulated release of enteric hormones that have a stimulatory
 action on the enteroacinar and enteroinsular axis as well as an
inhibitory

action (enterogastrone-like activity) on the postprandial regulation of gastric function.

L10 ANSWER 15 OF 24 MEDLINE DUPLICATE 11

ACCESSION NUMBER: 88084275 MEDLINE

DOCUMENT NUMBER: 88084275 PubMed ID: 2891586

TITLE: Somatostatin may not be a hormonal messenger of

fat-induced

inhibition of gastric functions.

AUTHOR: Mogard M H; Maxwell V; Wong H; Reedy T J; Sytnik B; Walsh

J

н

CORPORATE SOURCE: Center for Ulcer Research and Education, Veterans

Administration Wadsworth Medical Center, Los Angeles,

California.

CONTRACT NUMBER: DK 17294 (NIDDK)

DK 17328 (NIDDK) DK 35445 (NIDDK)

SOURCE: GASTROENTEROLOGY, (1988 Feb) 94 (2) 405-8.

Journal code: 0374630. ISSN: 0016-5085.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 198802

ENTRY DATE: Entered STN: 19900305

Last Updated on STN: 19970203 Entered Medline: 19880220

AB The present study was designed to evaluate somatostatin as a hormonal inhibitor of gastric functions in humans. Seven healthy volunteers were investigated on 6 separate days. Peptone meal-stimulated

gastric acid secretion was measured by

intragastric titration for 2 h and gastric emptying was estimated with a dye-dilution technique. The effect of intravenous administration of somatostatin at 0, 12.5, 50, 100, and 200 pmol/kg.h was investigated and related to the effect of intragastric administration of 100 ml of vegetable oil. Plasma somatostatinlike immunoreactivity was elevated during intravenous administration of somatostatin at 100 and 200 pmol/kg.h, whereas no increase was detected in response to the oil. Somatostatin infusion at 100 and 200 pmol/kg.h significantly inhibited

Somatostatin infusion at 100 and 200 pmol/kg.h significantly inhibited the

acid secretion by 25% and 65%, and the oil reduced the acid output by 41%.

Somatostatin at 100 and 200 pmol/kg.h significantly enhanced gastric emptying, whereas the oil inhibited gastric emptying. These observations suggest that somatostatin may not be an important hormonal messenger of fat-induced inhibition of acid secretion or gastric emptying.

L10 ANSWER 16 OF 24 MEDLINE

ACCESSION NUMBER: 87018632 MEDLINE

DOCUMENT NUMBER: 87018632 PubMed ID: 2876506

TITLE: Physiological role of somatostatin in the digestive tract:

gastric acid secretion, intestinal absorption, and

motility.

AUTHOR: Krejs G J

HBM

SOURCE: SCANDINAVIAN JOURNAL OF GASTROENTEROLOGY. SUPPLEMENT,

(1986) 119 47-53. Ref: 32

Journal code: 0437034. ISSN: 0085-5928.

PUB. COUNTRY:

Norway

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

198611

ENTRY DATE:

Entered STN: 19900302

Last Updated on STN: 19950206

Entered Medline: 19861117

AB Somatostatin is found in both endocrine cells and nerve fibres of the gastrointestinal tract and has several inhibitory effects on the digestive

tract. Somatostatin is a potent inhibitor of gastrin release;

its secretion is regulated predominantly by the cholinergic pathway, which

inhibits somatostatin and thus stimulates gastrin release. **Gastric** acid secretion is inhibited by both the paracrine and circulating peptide (hormonal) effects of somatostatin. Somatostatin secretion is a direct effect of acid on the somatostatin cell, since it

is

unaffected by the axonal blocker tetrodotoxin. Somatostatin antiserum eliminates the inhibitory effect of somatostatin and thus augments acid secretion. It therefore appears that somatostatin plays a physiological role_in regulating gastric acid secretion, and it is possible that a lack of the inhibitory function of somatostatin is an aetiological factor in peptic ulcer disease. Postprandially, a rise in serum somatostatin concentration occurs which is twice as high with protein and fat as it is with carbohydrates. Several studies have shown that somatostatin inhibits nutrient absorption, indicating

that

somatostatin might be a physiological regulator in the homeostasis of ingested nutrients by modulating the intestinal absorption rate. Experiments have also demonstrated that somatostatin infusion inhibits intestinal motility; the interval between migrating myoelectric complexes is increased, and transit time is increased.

L10 ANSWER 17 OF 24 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

ACCESSION NUMBER:

86181904 EMBASE

DOCUMENT NUMBER:

1986181904

TITLE:

Physiological role of somatostatin in the digestive tract:

Gastric acid secretion, intestinal absorption, and

motility.

AUTHOR:

Krejs G.J.

CORPORATE SOURCE:

University of Texas Health Science Center at Dallas, Southwestern Medical School, Dallas, TX, United States

SOURCE:

Scandinavian Journal of Gastroenterology, Supplement,

(1986) 21/SUPPL. 119 (47-53).

CODEN: SJGSB8

COUNTRY:

Norway_

DOCUMENT TYPE:

Journal

FILE SEGMENT:

037 Drug Literature Index

048 Gastroenterology

029 Clinical Biochemistry

003 Endocrinology

LANGUAGE:

English

AB Somatostatin is found in both endocrine cells and nerve fibres of the gastrointestinal tract and has several inhibitory effects on the digestive

tract. Somatostatin is a potent inhibitor of gastrin release; its secretion is regulation predominantly by the cholinergic pathway, which inhibits somatostatin and thus stimulates gastrin release. Gastric acid secretion is inhibited by both

the paracrine and circulating peptide (hormonal) effects of somatostatin. Somatostatin secretion is a direct effect of acid on the somatostatin cell, since it is unaffected by the axonal blocker tetrodotoxin. Somatostatin antiserum eliminates the inhibitory effect of somatostatin and thus augments acid secretion. It therefore appears that somatostatin plays a physiological role in regulating gastric acid secretion, and it is possible that a lack of the inhibitory

function of somatostatin is an aetiological factor in peptic ulcer disease. Postprandially, a rise in serum somatostatin concentration occurs

which is twice as high with protein and fat as it is with carbohydrates. Several studies have shown that somatostatin inhibits nutrient absorption, indicating that somatostatin might be a physiological

regulator in the homeostasis of ingested nutrients by modulating the intestinal absorption rate. Experiments have also demonstrated that somatostatin infusion inhibits intestinal motility; the interval between migrating myoelectric complexes is increased, and transit time is increased.

L10 ANSWER 18 OF 24 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 1983:294184 BIOSIS

BA76:51676

DOCUMENT NUMBER: TITLE:

PREDICTION OF CIMETIDINE DISPOSITION IN THE AGED.

AUTHOR(S):

RITSCHEL W A

CORPORATE SOURCE:

UNIV. CINCINNATI MED. CENT., MAIL LOCATION NO. 4,

CINCINNATI, OH 45267, USA.

SOURCE:

METHODS FIND EXP CLIN PHARMACOL, (1983) 5 (4), 255-262.

CODEN: MFEPDX. ISSN: 0379-0355.

FILE SEGMENT:

BA; OLD

LANGUAGE:

English

The change in the elimination half-life of cimetidine [a potent inhibitor of gastric acid secretion]

as a function of age can accurately be predicted by an equation previously

published. For the age-dependent change of the apparent volume of distribution, a correction factor was developed based on total body fluid and body fat as a function of age. The predicted values correlate well with experimental data reported. A computer program was developed for cimetidine dosage regimen prediction which can be used for normal subjects, young and geriatric patients with and without renal impairment.

L10 ANSWER 19 OF 24 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1983:155604 CAPLUS

DOCUMENT NUMBER:

98:155604

TITLE:

On the neurohumoral interrelations in the regulation

of gastric secretion

AUTHOR (S):

Shlygin, G. K.

CORPORATE SOURCE:

Inst. Nutr., Moscow, USSR

SOURCE:

Agressologie (1982), 23(6), 245-8

CODEN: AGSOA6; ISSN: 0002-1148

DOCUMENT TYPE: LANGUAGE:

Journal English

Gastric acid secretion by dogs was

stimulated by i.v. infusions of mixts. of L-amino acids and by most individual amino acids, with the exception of dicarboxylic acids that inhibited the secretory function of the stomach. The stimulatory effect of amino acids was blocked by atropine, and the inhibitory effect of glutamic acid by adrenoblockers, indicating that the amino acids act via neural mechanisms. Although atropine inhibited acid secretion 5-6 h following a protein meal, it was not affected by gastrin inhibitors. Gastrin is known to play a major role in acid secretion induced by fat ingestion. Thus, gastric acid secretion after eating is influenced both by the response to absorbed amino acids and by gastrin, and the predominant mechanism is dependent on the chem. nature of nutrients in food.

DUPLICATE 12 L10 ANSWER 20 OF 24 MEDLINE

ACCESSION NUMBER:

81024926 MEDITNE

PubMed ID: 7419011 81024926

DOCUMENT NUMBER: TITLE:

Effect of intravenous lipid on gastric acid secretion

stimulated by intravenous amino acids.

AUTHOR:

Varner A A; Isenberg J I; Elashoff J D; Lamers C B;

Maxwell

V; Shulkes A A

CONTRACT NUMBER:

AM 17328 (NIADDK)

SOURCE:

GASTROENTEROLOGY, (1980 Nov) 79 (5 Pt-1) 873-6....

Journal code: 0374630. ISSN: 0016-5085.

PUB. COUNTRY:

United States

DOCUMENT TYPE:

(CLINICAL TRIAL)

Journal; Article; (JOURNAL ARTICLE)

(RANDOMIZED CONTROLLED TRIAL)

LANGUAGE:

English

FILE SEGMENT:

Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH:

198012

ENTRY DATE:

Entered STN: 19900316

Last Updated on STN: 19980206 Entered Medline: 19801218

Intraduodenal fat is a potent inhibitor of all forms AB

of gastric acid secretion in humans. Studies

were performed in random order on 3 separate days in 5 normal subjects to determine if intravenous fat (Intralipid) altered

gastric acid secretion stimulated by

intravenous amino acids in humans. Mean (+/- SE) gastric acid output during a 4-hr intravenous amino acid infusion (21 g L-amino acids; Freamine II) plus glucose (50 g. to maintain isocaloric and isoosmolar solutions) was 43.2 +/- 3.2 meq/4 hr. Intraduodenal **fat** fusion (20 g of Intralipid) significantly (P < 0.02) suppressed amino acid-stimulated acid output. Interestingly, intravenous fat (20 g of Intralipid) also significantly (P < 0.02) inhibited acid secretion

(14.8 +/- 6.3 meg/4 hr); similar to the effect observed with intraduodenal

fat (12.7 +/- 4.9 meq/4 hr). Serum levels of CCK, gastrin, and GIP were measured at 30-min intervals throughout each study. Cholecystokinin and GIP increased significantly from basal during intraduodenal fat infusion. There were no other changes in serum CCK, gastrin, or GIP during any of the other tests. It is concluded that in normal subjects intravenous fat is a potent inhibitor of

intraveous amino acid-stimulated gastric acid secretion, similar in effect to intraduodenal fat. The inhibitory effect of intravenous fat on amino acid-stimulated gastric acid secretion is probably not mediated by release of either CCK of GIP. Circulating fat may play a role in the control of some forms of gastric acid secretion.

DUPLICATE 13 L10 ANSWER 21 OF 24 MEDLINE

MEDLINE 79025442 ACCESSION NUMBER:

79025442 PubMed ID: 100366 DOCUMENT NUMBER:

Effect of duodenal fat on plasma levels of gastrin and TITLE:

secretin and on gastric acid responses to gastric and

intestinal meals in dogs.

Rayford P L; Konturek S J; Thompson J C **AUTHOR:** GASTROENTEROLOGY, (1978 Nov) 75 (5) 773-7. SOURCE:

Journal code: 0374630. ISSN: 0016-5085.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE) DOCUMENT TYPE:

LANGUAGE: English

Abridged Index Medicus Journals; Priority Journals FILE SEGMENT:

ENTRY MONTH: 197812

Entered STN: 19900314 ENTRY DATE:

> Last Updated on STN: 19900314 Entered Medline: 19781227

The effects of duodenal instillation of sodium oleate (10 mmoles per hr) AB

. ...on plasma_levels of_gastrin and_secretin_and_on gastric.

acid secretion in response to gastric and intestinal meals were determined. Four dogs prepared with a septum between stomach and duodenum were provided with a special cannula that allowed separate access to the stomach or duodenum. Each dog received a 10% liver extract meal introduced either into the stomach (gastric phase) or into the

duodenum (intestinal phase). Sodium oleate administered during the

gastric

phase caused approximately a 30% reduction in plasma gastrin level and a 25% inhibition of gastric acid secretion.

Sodium oleate given during the intestinal phase completely abolished the plasma gastrin response and resulted in a 75% inhibition of

gastric acid secretion. Plasma secretin levels

were not changed during the gastric phase or the intestinal phase by instillation of sodium oleate. These results show that fat in the duodenum is a potent inhibitor of gastrin release and gastric acid secretion; the intestinal

mechanism involved does not appear to affect plasma secretin concentrations.

DUPLICATE 14 L10 ANSWER 22 OF 24 MEDLINE

ACCESSION NUMBER: 76177949 MEDLINE

PubMed ID: 1265443 76177949 DOCUMENT NUMBER:

Jejunal inhibition of pentagastrin-induced gastric acid TITLE:

secretion in man and Heidenhain pouch dogs.

AUTHOR: Christiansen J; Holst J J; Rokkjaer M

SCANDINAVIAN JOURNAL OF GASTROENTEROLOGY, (1976) 11 (2) SOURCE:

219-24.

Journal code: 0060105. ISSN: 0036-5521.

PUB. COUNTRY: Norway

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English FILE SEGMENT:

Priority Journals

ENTRY MONTH:

197607

ENTRY DATE:

Entered STN: 19900313

Last Updated on STN: 19900313 Entered Medline: 19760706

AB The administration of hypertonic glucose and saline and of **fat** intrajejunally in man caused a marked and almost identical inhibition of pentagastrin-stimulated **gastric acid secretion**

. Hypertonic glucose administered intrajejunally in Heidenhain pouch dogs resulted in an equal inhibition of pentagastrin-induced acid secretion from the pouch and the main stomach, whereas hypertonic saline had no effect. The study demonstrates the existence of potent jejunal inhibitors of gastric secretion, which seem to operate independently of vagal innervation.

L10 ANSWER 23 OF 24 CAPLUS COPYRIGHT 2002 ACS

DUPLICATE 15

ACCESSION NUMBER:

1975:54836 CAPLUS

DOCUMENT NUMBER:

82:54836

TITLE:

Release of gastric inhibitor from the intestine of

dogs infused intravenously with sodium oleate

AUTHOR (S):

Kowalewski, K.; Secord, D. C.

CORPORATE SOURCE:

Surg. Med. Res. Inst., Univ. Alberta, Edmonton,

Alberta, Can.

SOURCE:

Pharmacology (1974), 12(3), 177-85

CODEN: PHMGBN

DOCUMENT TYPE:

Journal

LANGUAGE: -

--- English

AB Lyophilized exts. of canine intestinal secretion or mucosa were prepd. using dogs infused i.v. for 6 hr with saline or Na oleate. The exts. were

assayed for their gastric acid inhibitory action by i.v. infusion into Heidenhain pouches of dogs stimulated with pentagastrin. Gastric acid secretion was inhibited only in dogs infused with Na oleate. Thus, the i.v. infusion of fat results in the release of a gastric inhibitor of intestinal origin that behaves as an enterogastrone.

L10 ANSWER 24 OF 24 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1970:1938 CAPLUS

DOCUMENT NUMBER:

72:1938

TITLE:

Blockade of norepinephrine uptake and other

activities

οf

5-(3'-dimethylaminopropyl)dibenzo[a,d][1,4]cyclohep

tadiene hydrochloride (AY-8794) and structurally

related compounds

AUTHOR(S):

Lippmann, Wilbur

CORPORATE SOURCE:

Biogenic Amines Lab., Ayerstt Lab., Montreal, Que.,

Can.

SOURCE:

Biochem. Pharmacol. (1969), 18(10), 2517-29

CODEN: BCPCA6

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB The effects of AY-8794 [5-(3-dimethylaminopropyl)-dibenzo[a,d][1,4]cycl oheptadiene-HCl] and structurally related compds. on the uptake of norepinephrine into the storage sites and other activities were detd. AY-8794 blocks the uptake of 3H labeled norepinephrine into the mouse and rat heart. AY-8794 is a potent inhibitor of gastric

acid secretion in the rat. The free fatty acid
mobilization in vitro from minced rat epididymal fat pads
induced by norepinephrine is inhibited at a high level and is stimulated
at a low level of AY-8794. AY-8794 exhibits antiinflammatory activity in
the rat. The structural requirements for various of these activities
were

detd.

=> d his

(FILE 'HOME' ENTERED AT 11:38:34 ON 17 OCT 2002)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT 11:38:59 ON 17 OCT 2002

L1	26873 S GASTRIC ACID SECRETION	
L2	13071 S L1 (P) INHIBIT?	
L3	371 S L2 (A) FAT	
L4	343 S L2 (P) FAT	
L5	132 DUPLICATE REMOVE L4 (211 DUPLICATES REMOVED)	
L6	124 S L5 AND PY<2000	
L7	1 S L6 (P) (MILK OR EGG)	
L8	3514 S L1 (P) INHIBITOR	
L9	64 S L8 (P) FAT	
L10	24 DUPLICATE REMOVE L9 (40 DUPLICATES REMOVED)	

=> log y COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY 48.42	SESSION 48.63
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.10	-3.10

STN INTERNATIONAL LOGOFF AT 11:46:06 ON 17 OCT 2002